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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416).			
nternational Application No.	International Filing Da (day/month/year)	te	Priority Date (day/month/year)		
PCT/AU2003/000944	25 July 2003		26 July 2002		
International Patent Classification (IPC)	or national classification ar	nd IPC	1		
Int. Cl. ⁷ A61K 39/015, 39/395; A					
Applicant THE WALTER AND ELIZA	HALL INSTITUTE OF	MEDICAL RESE	ARCH et al		
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of	3 sheets, including this	cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	otal of sheet(s).				
3. This report contains indications rel	ating to the following items	3:			
I X Basis of the report	I X Basis of the report				
Π Priority					
III Non-establishment					
IV Lack of unity of inv					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI Certain documents	Certain documents cited				
VII Certain defects in the	defects in the international application				
VIII Certain observations on the international application					
Date of submission of the demand Date of completion of the report					
19 January 2004		1 November 2004			
Name and mailing address of the IPEA/AU		Authorized Officer			
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AU E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929		NICOLE HOW Telephone No. (0)			

INTERNATIONAL PRELID. ARY EXAMINATION REPORT

Aternational application No.
PCT/AU2003/000944

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* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).	5.	T	his report has been established as if (some of) the amendments had not been made, since they have been considered to beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
•	*	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this				
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PCT/AU2003/000944

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Noveltý (N)	Claims NONE	YES
·	Claims 1-65	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-65	NO
Industrial applicability (IA)	Claims 1-65	YES
	Claims NONE	NO ·

2. Citations and explanations (Rule 70.7)

CITATIONS

D1 WO 2000/015254 A (Walter & Eliza Hall Institute of Medical Research) 23 March 2000

D2 Romero G et al, "Anti-inositolglycan antibodies selectively block some of the actions of insulin in intact BC3H1 cells, PNAS, February 1990, vol 87, pages 1476-1480

D3 Naik RS et al, "Glycosylphosphatidylinositol anchors of Plasmodium falciparum: Molecular characterization and naturally elicited antibody response that may provide immunity to malaria pathogenesis" Journal of Experimental Medicine, 4 December 2000, vol 192, no 11, pages 1563-1575

D4 Schofield L et al, "Synthetic GPI as a candidate anti-toxin vaccine in a model of malaria, Nature, 15 August 2002, vol 418, pages 785-789

EXPLANATIONS

D1 teaches immunogenic compositions and molecules comprising a glycosylphosphatidylinositol (GPI) inositolglycan domain that are incapable of inducing an immune response directed to a lipidic domain of GPI. In particular the GPI is derived from *Plasmodium*. It further teaches antibodies directed against the molecules and methods of treating and preventing parasitic infections. The document deprives claims 1-65 of novelty and an inventive step.

D2 teaches antibodies generated against inositolglycan linkers prepared by pronase digestion of variant surface glycoprotein (VSG) of *Trypanosoma brucei* wherein the lipid portion was removed and therefore deprives claims 43-45 of novelty and an inventive step.

D3 teaches native (GPI) anchors of *Plasmodium falciparum* and characterizes naturally produced antibodies against them. Although the document broadly teaches these antibodies to be mainly directed against the acylated phosphoinositol portion of GPIs there is no specific suggestion that the exogenous use of the <u>inositolglycan portion</u> of GPIs that are substantially <u>deprived of their lipidic domain</u> can be used to generate an immune response, treat or prevent parasite infections, or used to test for and develop immunological molecules of interest. Claims 1-65 are therefore novel and inventive in light of this document.

D4 was published prior to the international filing date of the present claims but later than the priority date claimed and may be of relevance if the priority of the present claims were determined to be invalid. The document teaches synthetic fragments of GPI glycans as anti-toxin vaccines for malaria.

Claims 1-65 are all considered to be industrially applicable.